

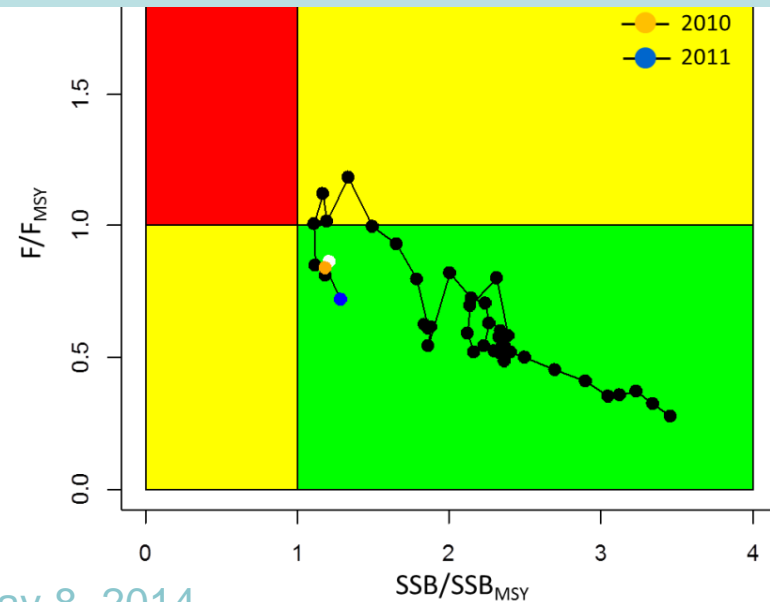
Context for Pacific Islands

Fisheries Stock Assessments

Christofer Boggs - Chief, Fisheries Research and
Monitoring Division

External Review of Fisheries Stock Assessments

May 19-22, 2014



Examples Representative of Stock Assessments

Insular (Domestic, Small-Vessel or Shore-based)

Highly Migratory Species
(HMS, International, Pelagic,
Tunas and Tuna-Like Species)





Overfished:

Seamount Groundfish Complex – Fishery in US waters closed in 1986. Foreign fishing on high seas continued. RFMO Management under development.

Overfished and Overfishing:

Striped marlin
Pacific bluefin tuna

Overfishing:

Bigeye tuna

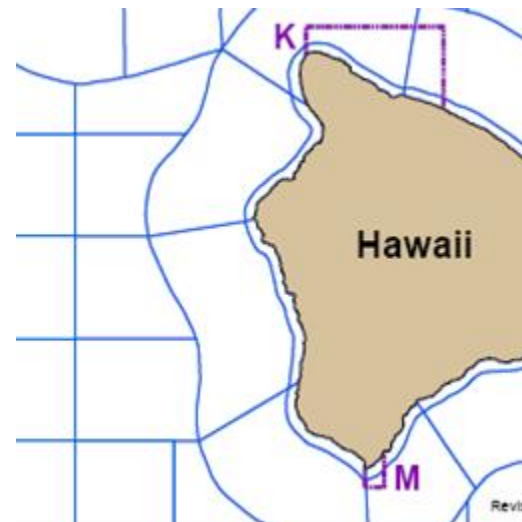
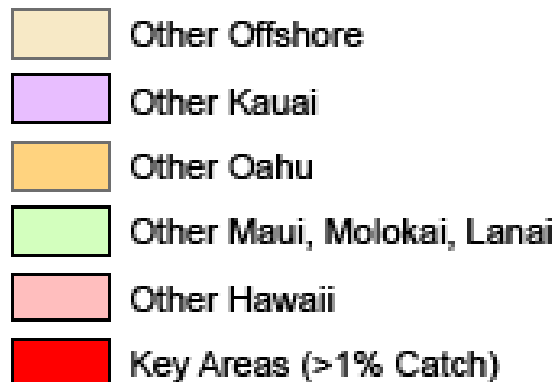


- Importance in relation to overfishing and overfished = Stocks managed internationally by Regional Fishery Management Organizations (RFMO's).
- Overfishing or overfished not currently indicated for any insular stocks in the Fish Stock Sustainability Index (FSSI).

Bottomfishing is in State and in Federal waters

Legend

- Other Offshore
- Other Kauai
- Other Oahu
- Other Maui, Molokai, Lanai



Which fish stocks to assess ?

NOAA Fisheries strives to provide at least baseline monitoring for all “managed” stocks.

Stocks are considered “managed” once they are included in Fishery Management (or Ecosystem) Plans produced by Fishery Management Councils.

All “managed” stocks require some kind of assessment.

Historically, there has not been an objective approach to prioritizing assessment activities.

Assessment Prioritization is needed to target levels and frequency of assessment upon factors such as the importance of the stock to commercial, recreational and subsistence fisheries.



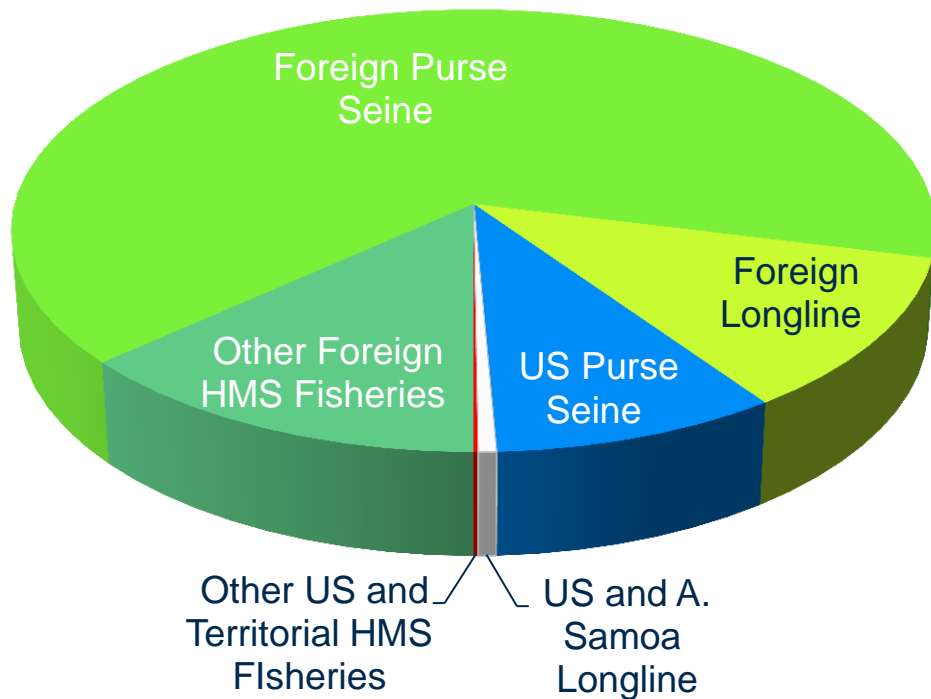
Fishery Management Plans (which became) Fishery Ecosystem Plans

- Pelagic species (Pelagic Ecosystem Plan)
 - **tunas, swordfish, billfish, sharks, etc.**
- Archipelagic Fishery Ecosystem Plans (FEPs)
 - Bottomfish
 - **snappers, groupers, jacks;**
 - **seamount groundfish**
 - Crustaceans
 - **spiny and slipper lobster; shrimp**
 - Precious Corals
 - Coral Reef Fish

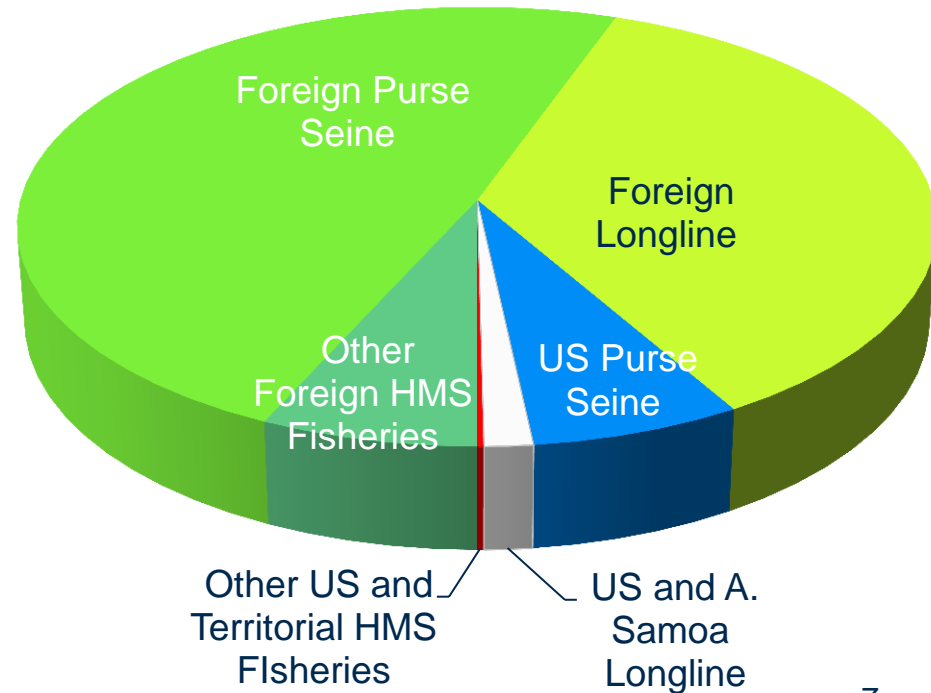


Recent Commercial Landings and Value of US and Foreign Fisheries for Pelagic, or “Highly Migratory” Species (HMS) in the Western and Central Pacific Fisheries Commission (WCPFC) Area

Landings of ~ 3 million metric tons
(6.6 billion pounds)



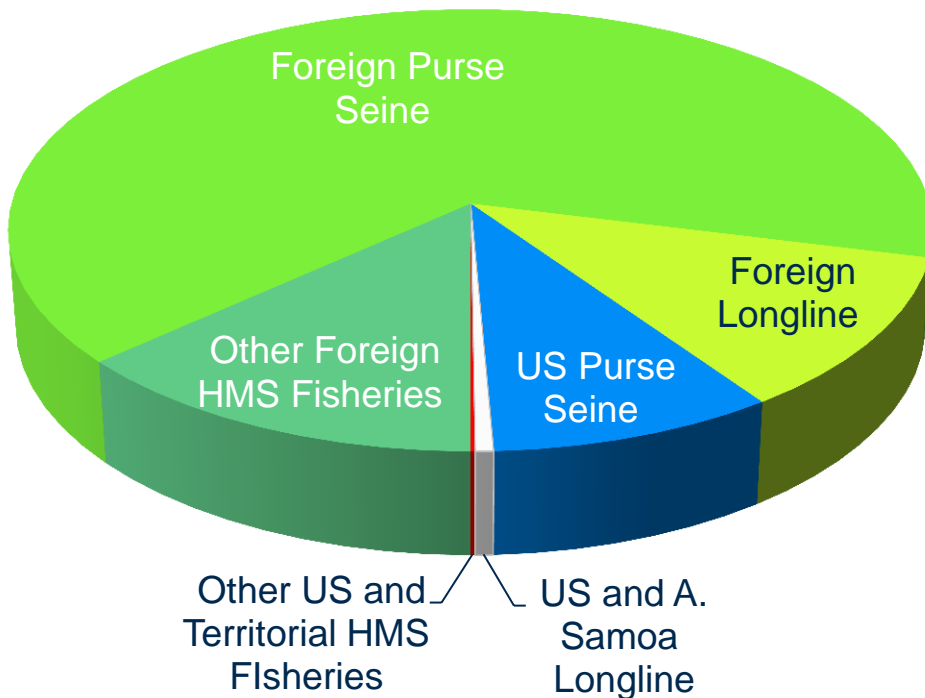
FOB Value of ~ 5.5 billion dollars
(\$1.20 per pound)



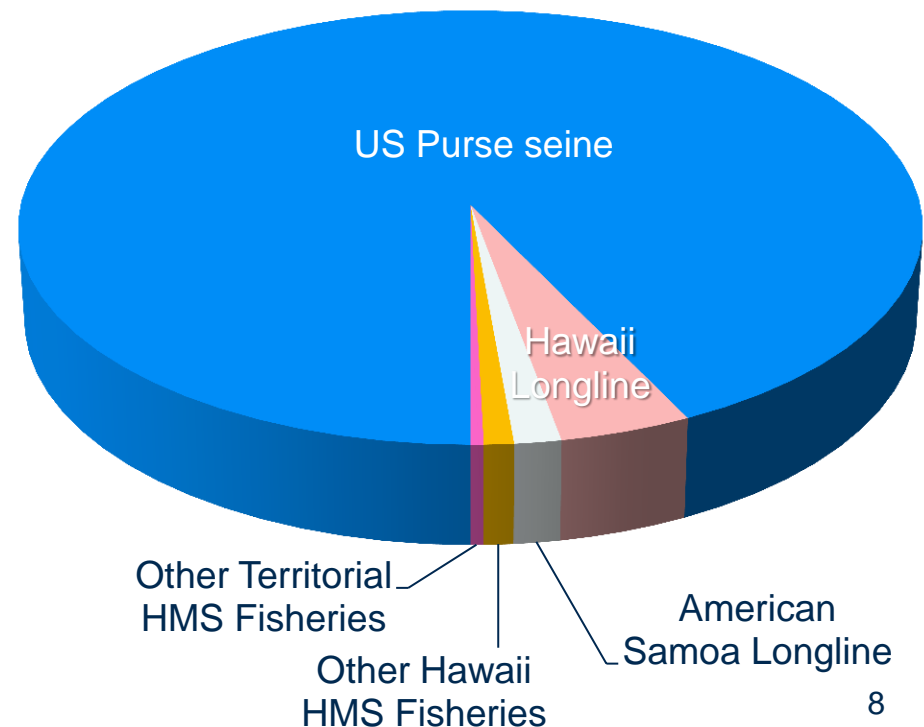


Recent Commercial Landings of US and Foreign Fisheries for Pelagic HMS in the Western and Central Pacific Fisheries Commission (WCPFC) Area

International Landings of ~ 3 million metric tons (6.6 billion pounds)



Landings by US of ~ 220,000 metric tons (0.5 billion pounds)



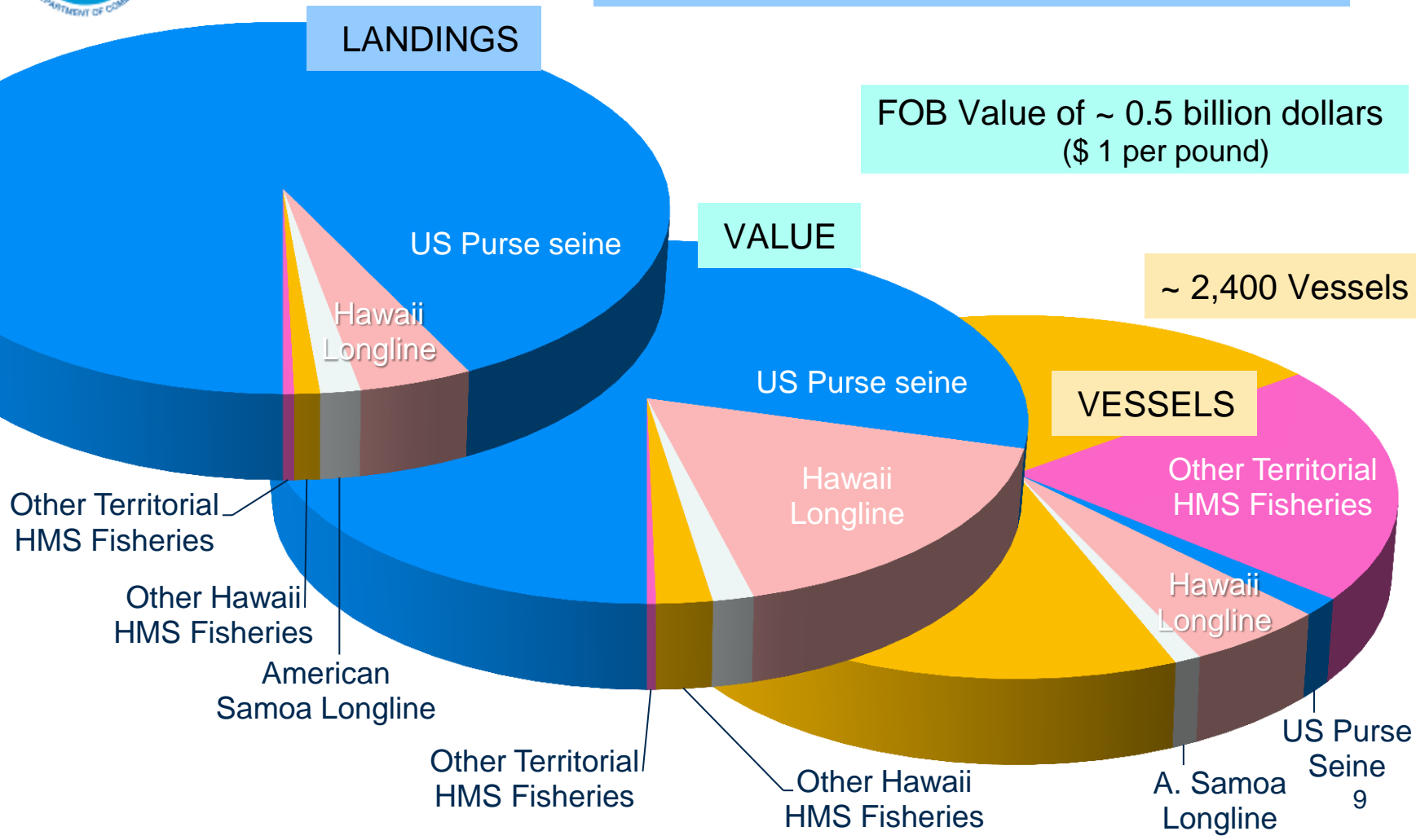
Recent Landings and Value of US and Territorial HMS Fisheries in the WCPFC Area



Commercial Landings of ~ 220,000 metric tons
(0.5 billion pounds)

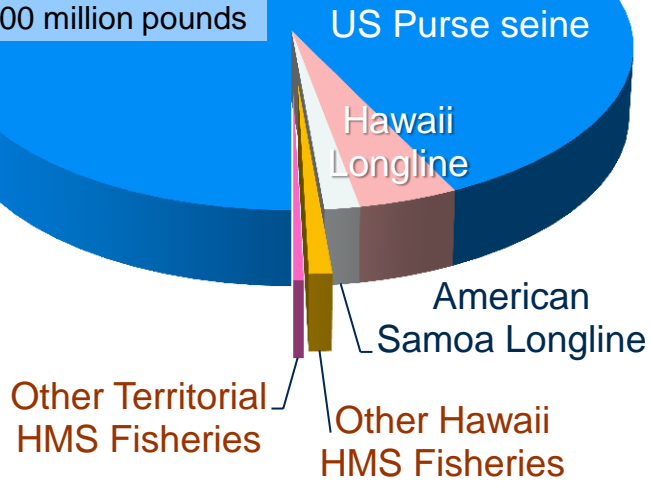
FOB Value of ~ 0.5 billion dollars
(\$ 1 per pound)

~ 2,400 Vessels



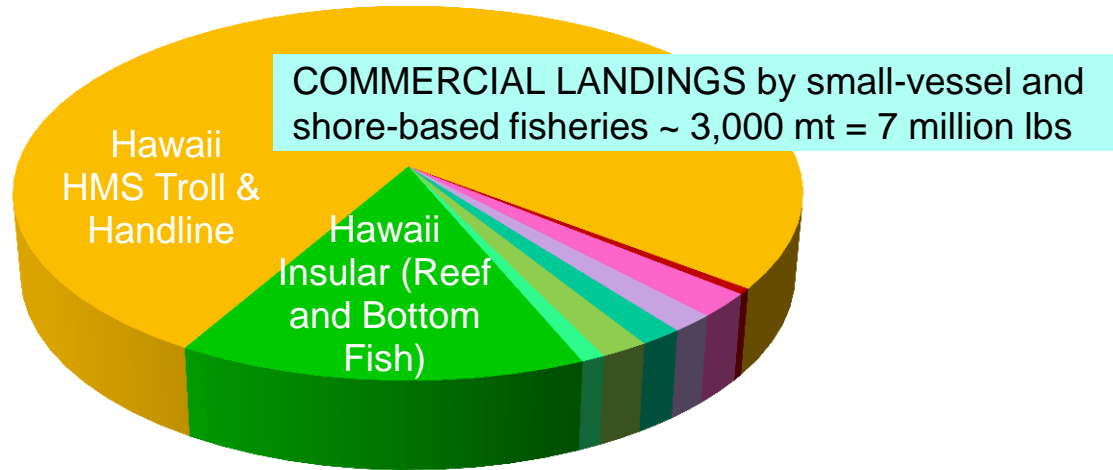
Recent Commercial Landings and Value of Insular Fisheries

TOTAL US HMS
LANDINGS were
220,000 mt =
500 million pounds

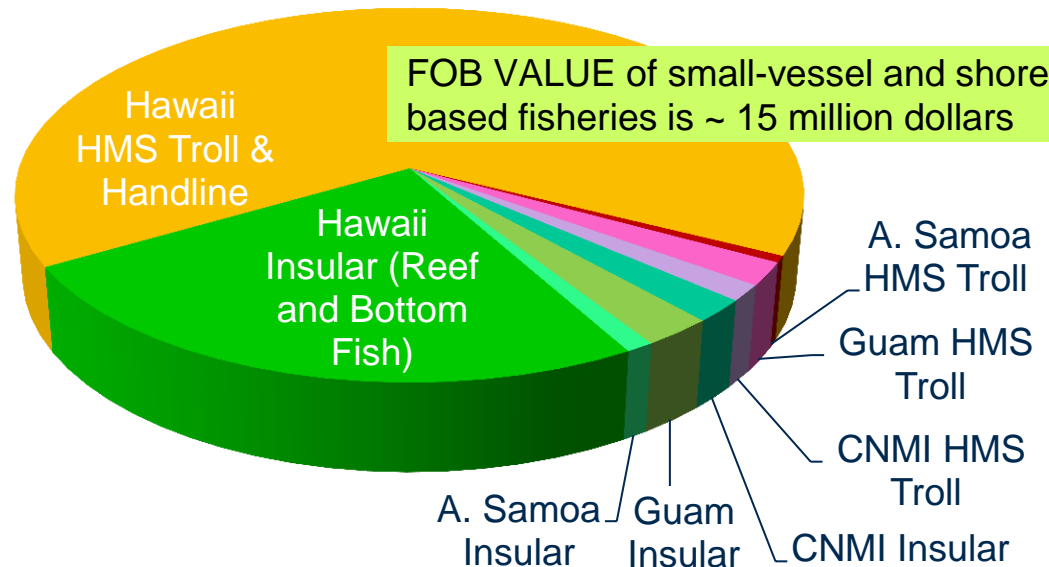


IN COMPARISON,
(below):

COMMERCIAL LANDINGS by small-vessel and shore-based fisheries ~ 3,000 mt = 7 million lbs



FOB VALUE of small-vessel and shore-based fisheries is ~ 15 million dollars



A comparison of these two smallest HMS fisheries (pink and orange wedges) with all of the State and Territory small-vessel and shore-based fisheries for insular species (bottom and reef fish, in shades of green) is shown on the right

Recent Landings of Small-Vessel Insular Bottomfish Fisheries

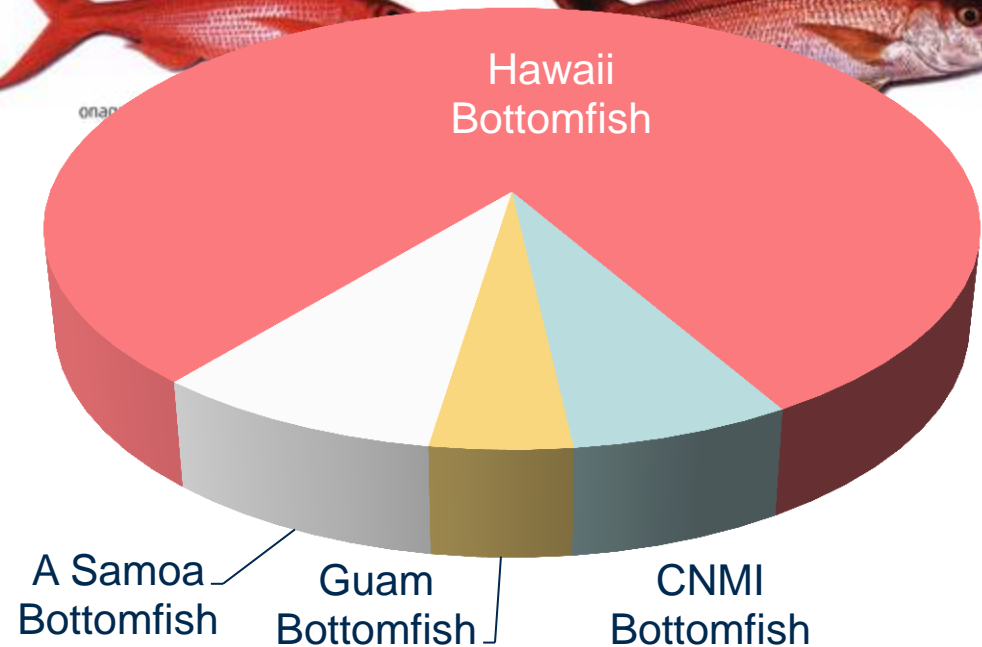
Commercial Landings of ~ 380,000 pounds



Bottomfish in
Hawaii Highly
Controlled by Both
State and Federal
Agencies

Not the Case for
Much Smaller
Fisheries in the
Territories

Recreational Catch
Poorly Known



Reef Fish Complexes in Hawaii & Territories

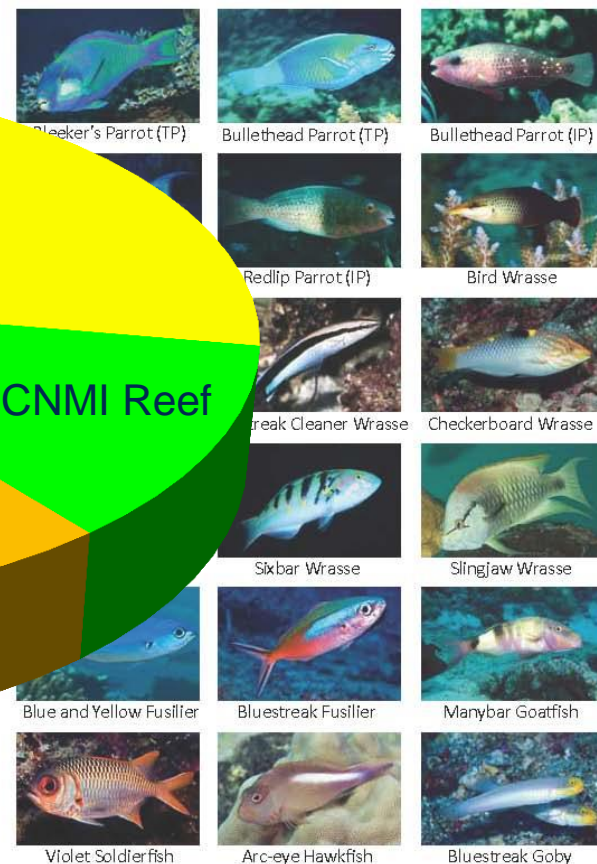
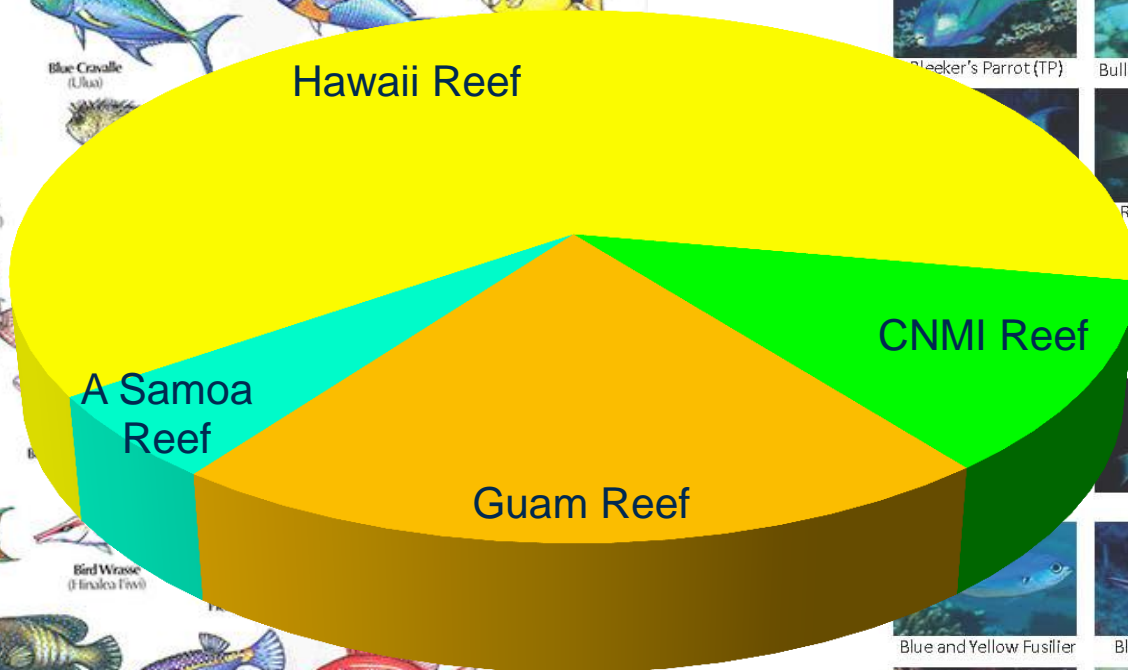


- Most Recent Concern
- Least Federal Authority

Commercial Landings of ~ 470,000 pounds

Big Uncertainties with Much Larger
Estimates of Recreational Landings

HAWAIIAN REEF FISH





Life History Program

Robert Humphreys,
7 staff

Fisheries Biology...



Fish Squeezing

Fisheries Monitoring Branch

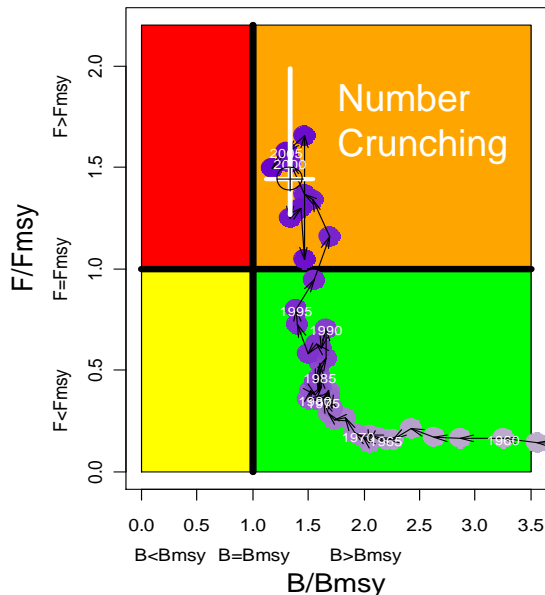
Insular Fisheries Monitoring Program

Kimberly Lowe,
17 staff



Fish Counting

...and Stock Assessment Branch



Stock Assessment Program

Gerard DiNardo,

13 staff, 8 which
actually conduct
the stock
assessments

International Fisheries Program

Keith Bigelow, 12 staff



International Reporting and Bycatch Research